

**NCPP Tech Telco**  
**Monday April 30th 2012 at 1230 MT**

*This document has been finalized as of Tuesday 01 May 2012 at 1932 MT. Any edits or additions after that time are to be considered invalid and are not representative of NCPP's discussions.*

Attending:

- Allyn Treshansky
- Laura Briley
- Wesley Ebisuzaki
- Joe Barsugli
- Galia Guentchev
- Luca Cinquini

Apologies:

- Andrea Ray
- Caspar Ammann

Agenda:

1. previous action items:
  - 1a. arrange demo of VISTRAILS / SAHM [DONE; ANOTHER DEMO MAY BE NEEDED]
  - 1b. GG/JB to check w/ Jeff and/or Steve re: status of shapefile [DONE; IN-PROGRESS]
  - 1c. AT to add legend/key to architecture diagram [DONE]
  - 1d. AT/JB/GG to come up w/ proposal for incorporating Downscaling CV into the CIM & to circulate that proposal to wider community [IN-PROGRESS]
  - 1e. BD to forward details of MetOceanDWG to group [DONE]
  - 1f. AT to contact MetOceanDWG regarding potential collaboration [DONE; AWAITING RESPONSE]
2. recap of VISTRAILS/SAHM demo
3. update on Downscaling CV
4. Other

Minutes:

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**VISTRAILS / SAHM DEMO**

- Last week there was a demo of the VISTRAILS software and SAHM plugin. Some of the NCPP team were present. Their tool serves a different purpose than our use-cases; they generate (some) metadata as they run through workflows - we record metadata after the fact. However, it may still be useful for either us to be able to ingest their metadata, or vice-versa.
- from AR: "VisTrails is also important b/c Jeff Morisette will be encouraging the NC-CSC funded pilot projects with Nc-CSC to use it, or if not, there will be another system like that. easier for us I think, to use just one."
- JB: We are interested in documenting work in great detail after it's been done; We are documenting relatively static products. In contrast VISTRAILS supports recording of all the configuration options, false starts, different exercises, etc. - it is more of a model building environment that documents the workflow.
- JB: VISTRAILS is interested in building a module that can ingest downscaled data; we would

like for that module to also retrieve our metadata that supports the data they are getting from GDP and other places;

- TODO: AT/AR to arrange another demo w/ these issues in mind (doodle poll around Tech meeting)

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#### Status of shapefile for Climate Indices Use-Case

- GG: File was received; but unable to work w/; sent to Tyler in the hopes that OGC can generate a suitable shapefile
- JB: ESRI provides an online GIS viewer that was unable to upload the shapefile; next tried in MatLab and could plot the data
- TODO: somebody else to investigate the shapefile
- TODO: somebody to try to upload shapefile to OGC
- JB: who has experience w/ shapefiles?
  - Laura?
- TODO: JB/GG to forward shapefile to NCPP\_tech
- TODO: LB to try and upload shapefile
- TODO: GG to continue asking TE for help
- ...if any of these are unsuccessful, then JB/GG to report back to NC-CSC
- LC - planning on using "OpenLayers" ; in COG they can access the workflow for selecting a region, data, indices, metadata, etc. and then submits the request (to USGS)
  - However, in the interest of time LC should start w/ the drop-down pre-defined choices (maybe w/ a map that \_shows\_ but doesn't \_select\_ the region).
- In the long term: We could use predefined regions that are available within GDP and send these only by name there when we request services; then we could also use OGC or OpenLayers to draw a region;
- Luca might need GML or KML format of the shapefile;
  - OGC can output GML/KML
- TODO: review the use-case in terms of interfaces;
  - in particular, how does geographic selection work - do we use an external service (OGC? GeoDataPortal?)

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#### Update on Downscaling CV

- A lot of good work has been done by AT/JB/GG. We are *almost* ready to circulate the full proposal. I can say that we have come up w/ 2 possibilities which we would like the wider group (NCPP + ES-DOC) to evaluate.
  - to perform downscaling is to use a ModelComponent and/or ProcessorComponent to generate data
  - to perform downscaling is to run an Experiment using different "Simulation" configurations
- TODO: AT/JB/GG to circulate proposal asap

#### Summary:

1. AT/AR to arrange another - NCPP focused - demo of SAHMS / VISTRAILS
2. JB to circulate shapefile to NCPP\_tech in the hopes that others can review it
3. LB in particular to try manipulating/viewing shapefile
4. GG to continue asking TE for help w/ shapefile
5. If we remain unable to use shapefile, then JB/GG to report back to NC-CSC
6. Look into getting LC region in KML or GML format

7. Review the Climate Indices Use Case in terms of interfaces; in particular, how should geographic selection work (do we use an external service such as OGC or the GeoDataPortal?)
8. AT/GG/JB to circulate Downscaling CV Proposal asap
9. AT to continue contacting MetOceanDWG regarding potential collaboration